

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of : Docket 0074-535083  
:   
Alan James Coulson : Confirmation No. 8160  
:   
U.S. Appln. No. 10/561,702 :   
:   
Filed: 05/22/2006 :   
:   
For: Narrowband Interference Suppression :   
for OFDM Systems :   
  
Commissioner for Patents  
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §1.56, Applicant hereby submits copies of the documents, other than issued US patents/patent applications, as identified in the attached Forms PTO/SB/08A and 08B.

Please note that this application is the U.S. national phase of International Patent Application No. PCT/NZ2004/000134, filed June 25, 2004. An International Search Report was established by the Australian Patent Office for this international application and a copy of the International Search Report was transmitted to the U.S. Patent and Trademark Office by the International Bureau.

Applicant respectfully requests full and proper consideration of the listed information during examination of the application, and that the listed information be printed on any patent which issues therefrom.

Respectfully submitted,  
DANN, DORFMAN, HERRELL AND SKILLMAN  
A Professional Corporation

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/561,702
Filing Date	05/22/2006
First Named Inventor	Alan James Coulson
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0074-535083

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>5</sup>
		WO 02/101953	12/19/2002	BROADCOM CORPORATION		
		EP 1 176 731	01/30/2002	TEXAS INSTRUMENTS INC.		
		EP 1 202 468	06/02/2002	HITACHI KOKUSAI ELECTR		
		WO 03/090422	10/30/2003	CONEXANT SYSTEMS INC.		
		EP 0 126 179	11/28/1984	SUMITOMO SPECIAL META		
		WO 02/069515	09/06/2002	MAGIS NETWORKS INC.		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## U. S. PATENT DOCUMENTS

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		WO 02/23781	03/21/2002	Industrial research limit		

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Sheet 1 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		M.G. Amin et al., "Optimum Interference Excision In Spread Spectrum Communications Using Open-Loop Adaptive Filters," IEEE, 07/1999	
		R. Nilsson et al., "A Narrow-Band Interference Canceller for OFDM-based Systems," 4th Euro. Personal Mobile Comm. Conf., 02/2001	
		G.J. Saulnier et al., "Performance of a Spread Spectrum OFDM System in a Dispersive Fading Channel with Interference," IEEE, 10/1998	
		J.A. Young et al., "Performance Metrics for Windows Used in Real-Time DFT-Based Multiple-Tone Frequency Excision," IEEE, 03/1999	
		S. Kapoor et al., "Interference Suppression in DMT Receivers Using Windowing," IEEE, 06/2000	
		L.B. Milstein et al., "An Analysis of a Real-Time Transform Domain Filtering Digital Communication System - Part I: Narrow-Band Interference Rejection," IEEE, 06/1980	
		S.D. Sandberg, "Adapted Demodulation for Spread-Spectrum Receivers which Employ Transform-Domain Interference Excision," IEEE, 09/1995	
		G. Carron et al., "Comparison of Two Modulation Techniques Using Frequency Domain Processing for In-House Networks," IEEE, 02/2001	
		K. Witrals, "Impact of DC-offsets and Carrier Feed-through on Correlation-based Frequency Synchronization for OFDM," 6th Intl. OFDM-Workshop 2001	
		D. Gerakoulis et al., "An Interference Suppressing OFDM System for Wireless Communications," IEEE, 04/2002	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

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Attorney Docket Number	0074-535083

Sheet 2 of 2

## NON PATENT LITERATURE DOCUMENTS

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		M. Kuhn et al., "Linear block codes for frequency selective PLC channels with colored noise and multiple narrowband interference," IEEE, 2002	
		R.W. Lowdermilk et al., "Interference Mitigation in Orthogonal Frequency Division Multiplexing (OFDM)," IEEE, 09/1996	
		S.J. Howard, "Narrowband Interference Rejection Using Small FFT Block Sizes," IEEE, 10/1992	
		J.G. Proakis, "Interference Suppression in Spread Spectrum systems," IEEE 09/1996	
		H-F Hsiao, "Narrow-Band Interference Rejection in OFDM-CDMA Transmission System," IEEE, 1998	

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Date  
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